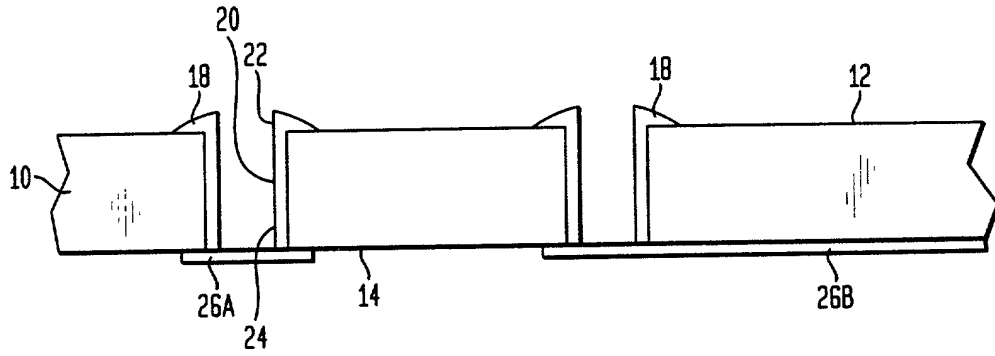
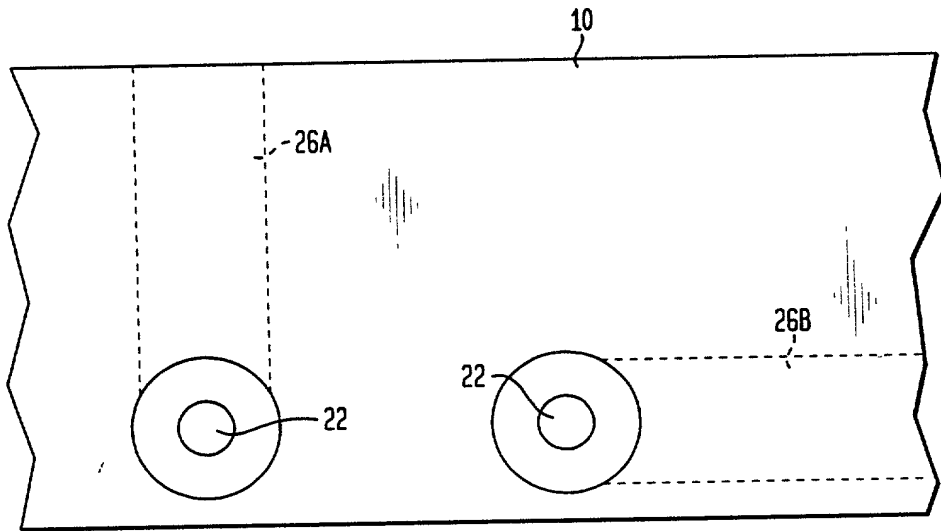


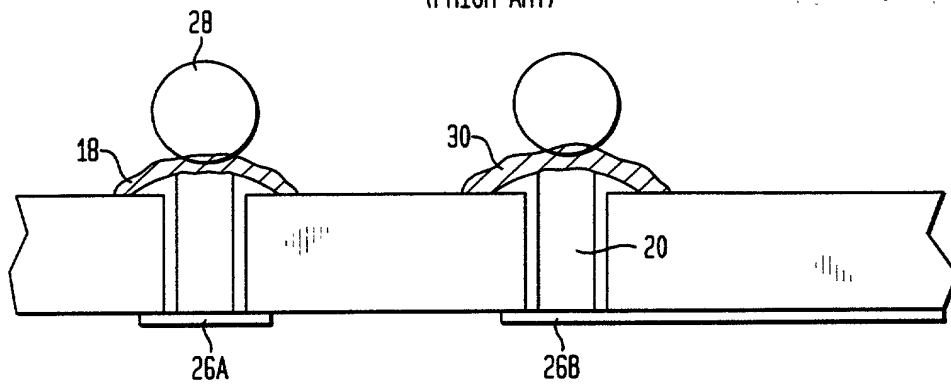
**FIG. 1A**  
(PRIOR ART)



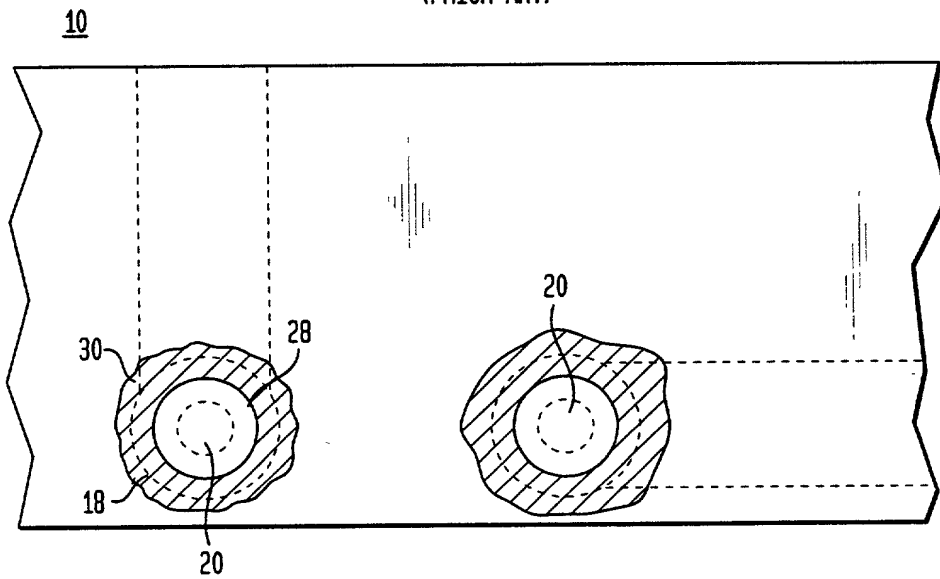
**FIG. 1A-1**  
(PRIOR ART)



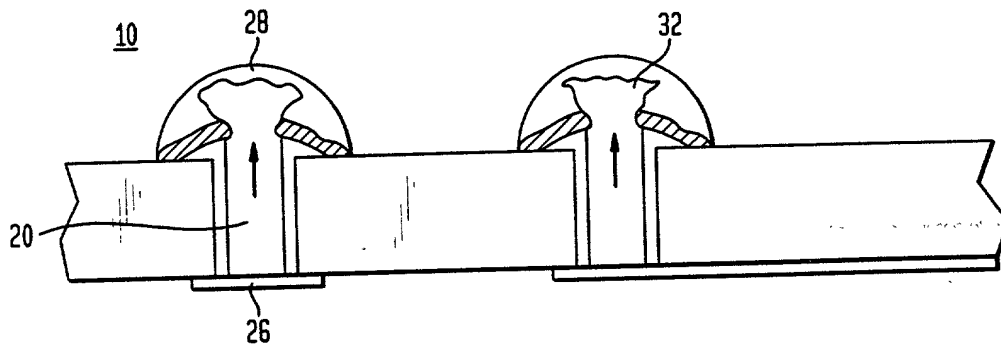
**FIG. 1B**  
(PRIOR ART)



**FIG. 1B-1**  
(PRIOR ART)



**FIG. 1C**  
(PRIOR ART)



**FIG. 1D**  
(PRIOR ART)

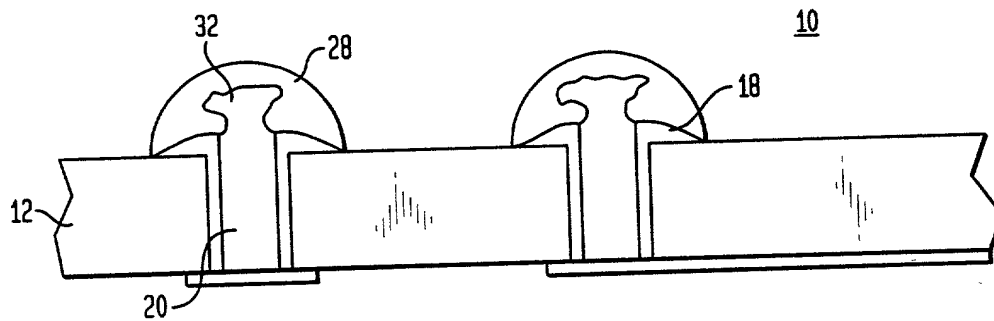


FIG. 2A

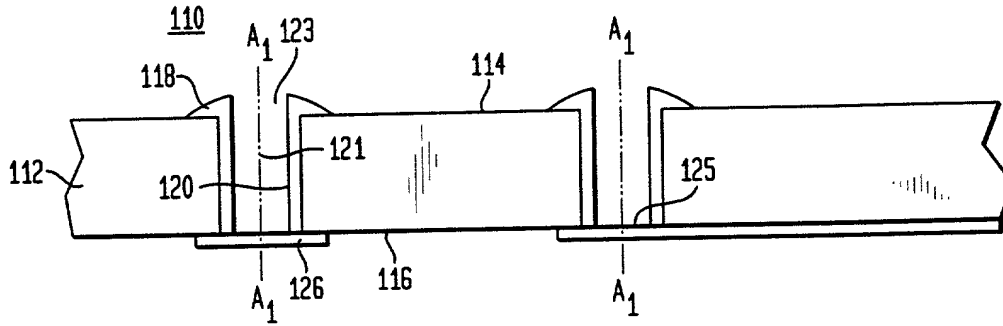


FIG. 2A-1

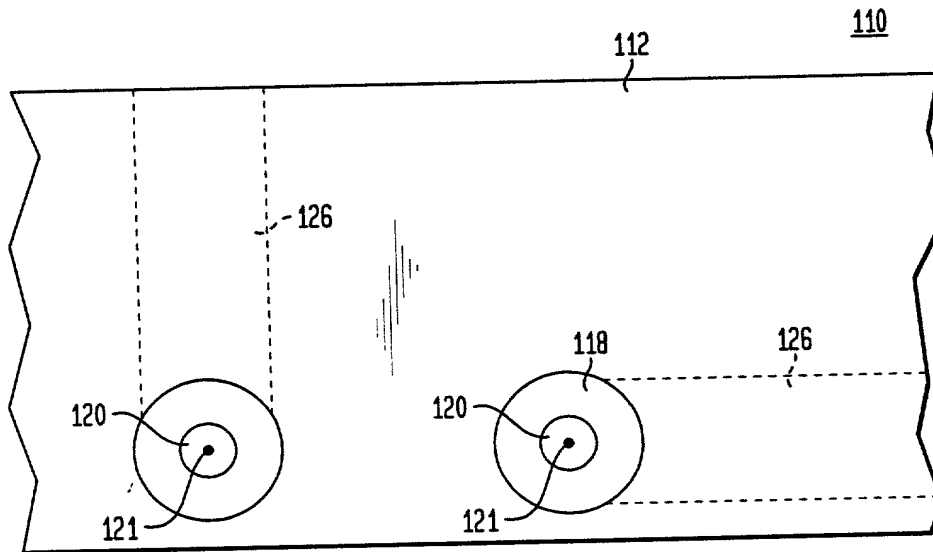


FIG. 2B

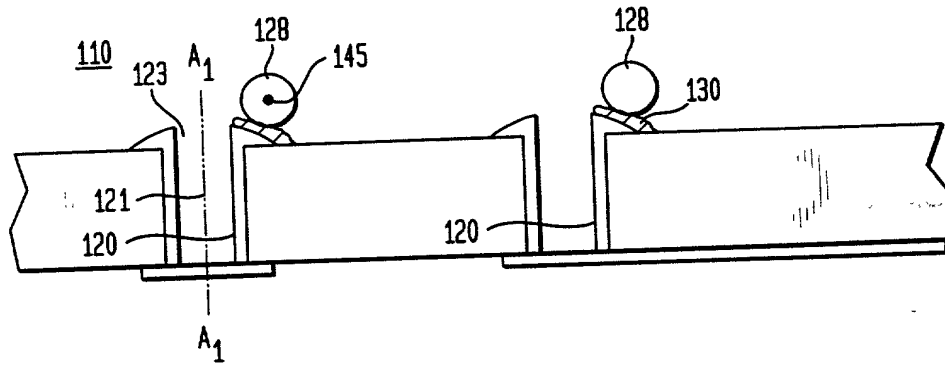


FIG. 2C

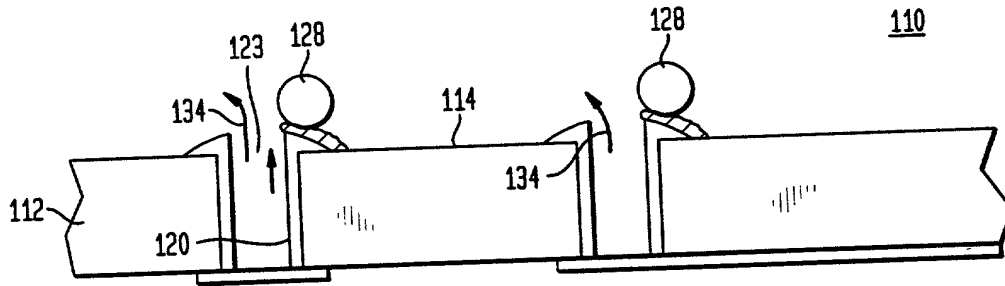


FIG. 2D

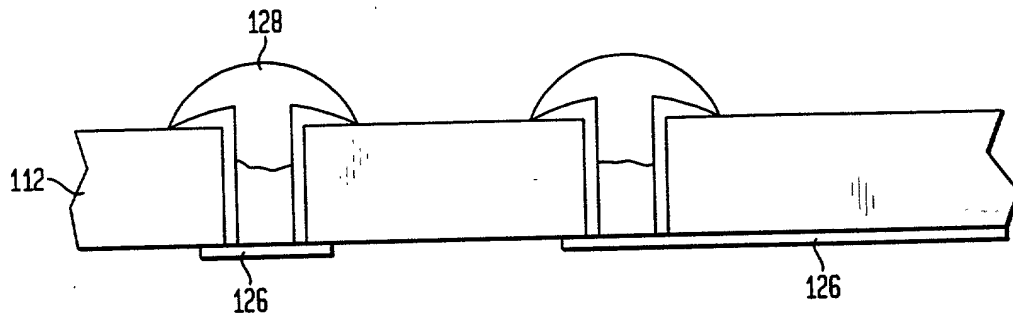


FIG. 2E

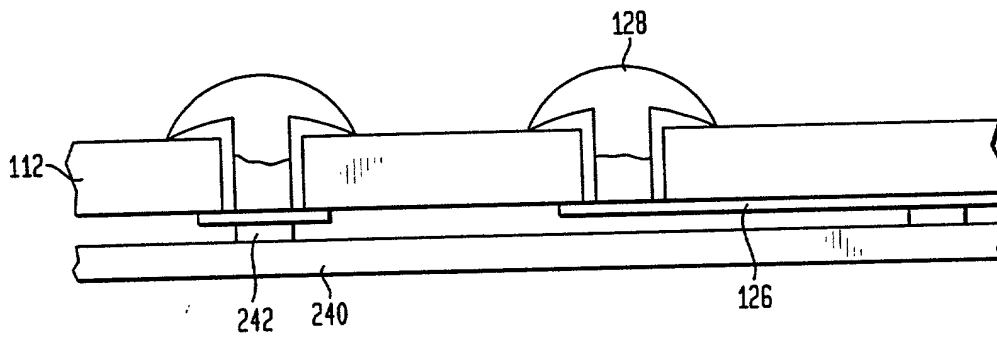


FIG. 2F

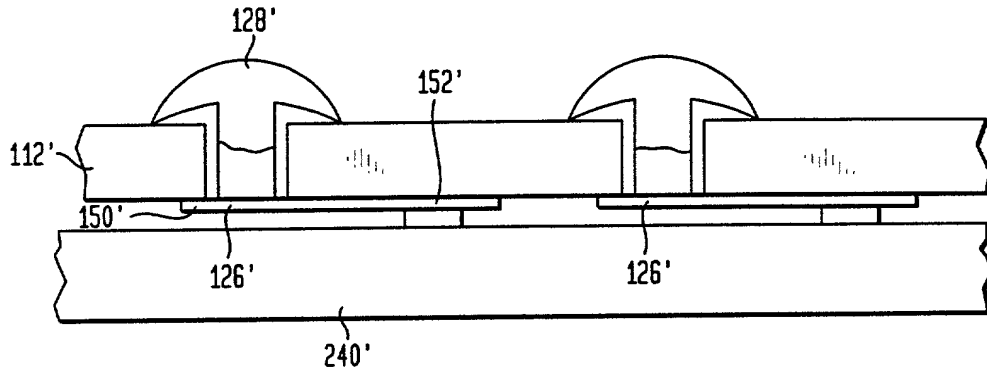


FIG. 2G

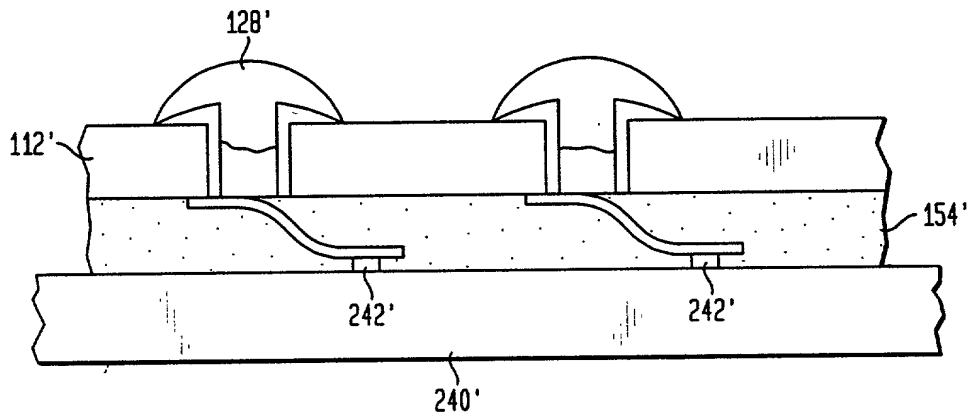


FIG. 3A

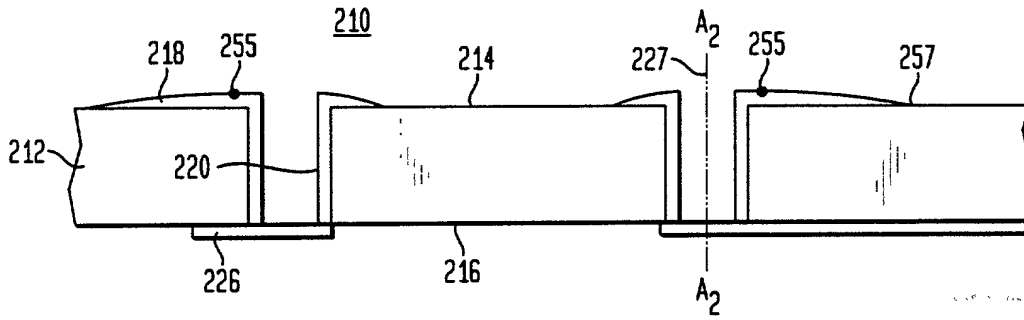


FIG. 3A-1

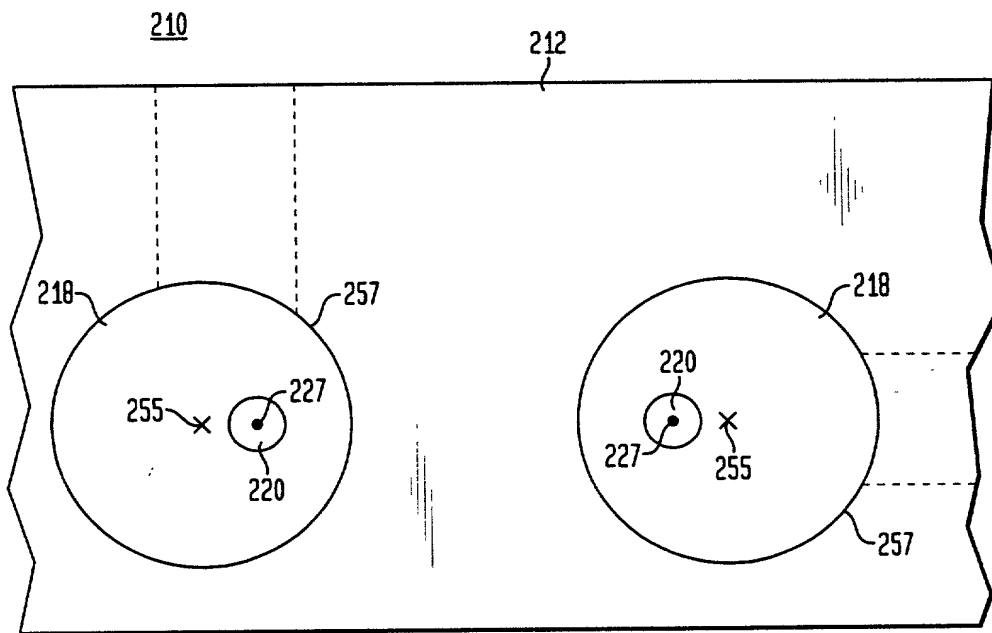




FIG. 3B

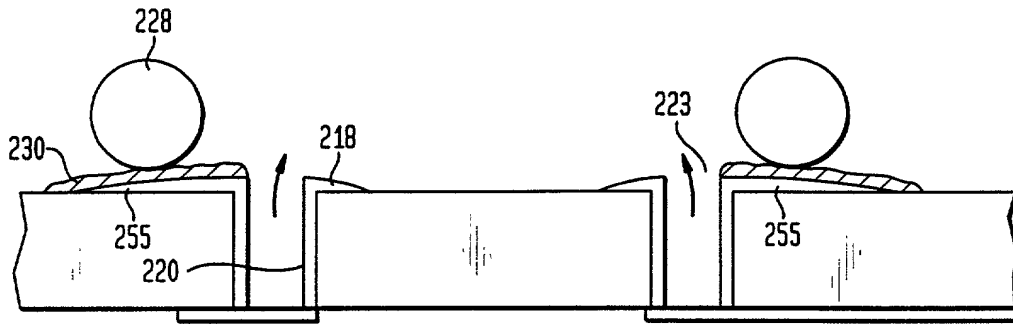


FIG. 3B-1

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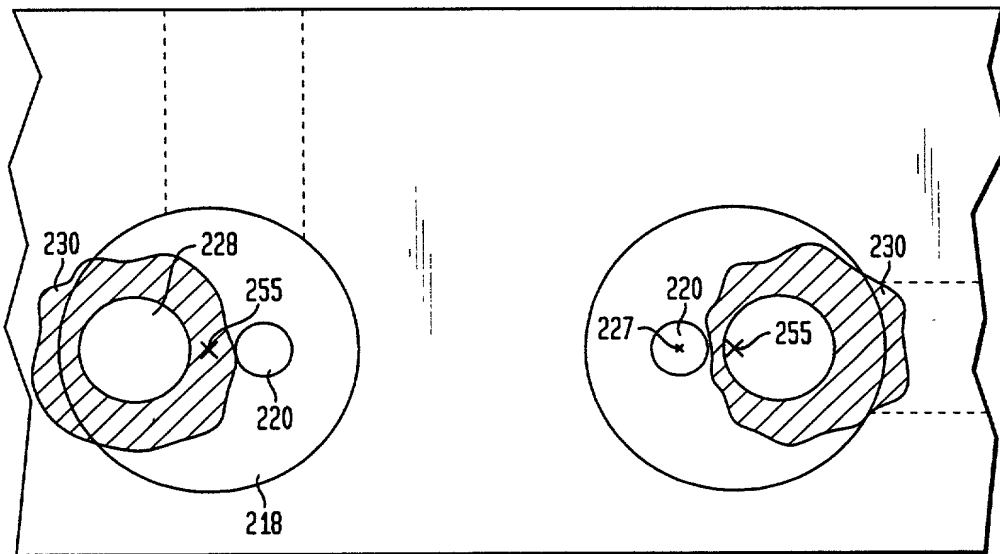


FIG. 3C

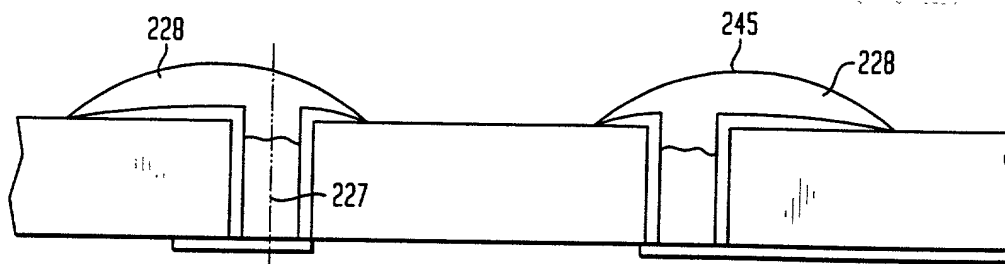


FIG. 3C-1

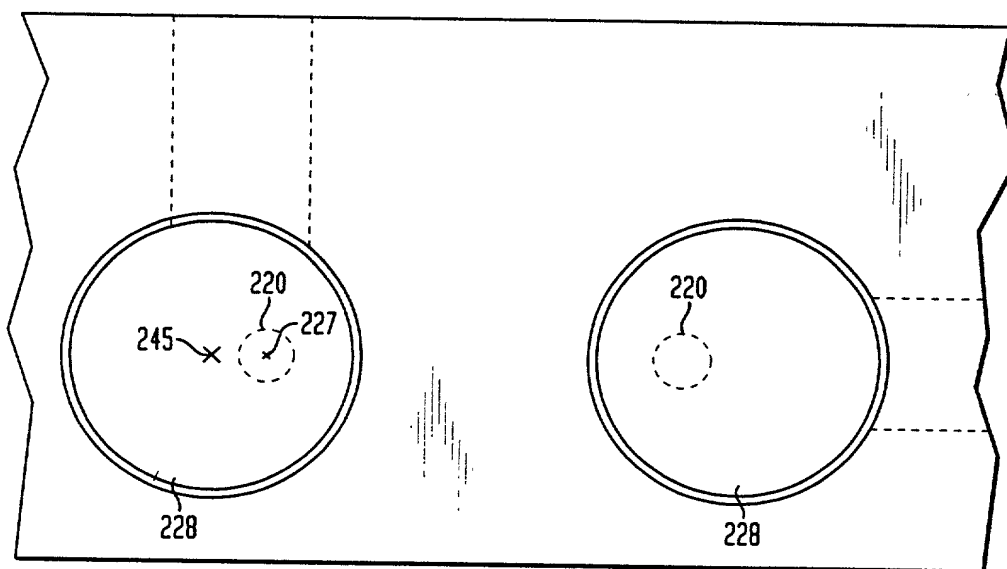


FIG. 4

SPLIT (1 STRIP)	FLUX	BALL PLACEMENT	POST-FLUX BAKE	PEAK TEMP (degC)	DWELL (SEC/ZONE)	VOIDS	AVERAGE SIZE
1	STANDARD	STANDARD	NONE	195	20	107	=5 mils
2	STANDARD	STANDARD	5MIN@75C	220	55	<40	=5 mils
3	STANDARD	STANDARD	10MIN@100C	235	60	<40	>5 mils
4	STANDARD	STANDARD	NONE	225	60	>40	=5 mils
5	STANDARD	STANDARD	5MIN@100C	225	60	>40	=5 mils
6	STANDARD	STANDARD	NONE	220	55	33	=5 mils
7	STANDARD	STANDARD	60MIN@100C	210	50	30	<5 mils
8	STANDARD	STANDARD	NONE	230	60	49	>5 mils
9	STANDARD	STANDARD	NONE	210	50	49	=5 mils
10	PASTE	STANDARD	5MIN@120C	210	50	104	=5 mils
11	PASTE	STANDARD	NONE	210	50	19	<5 mils
12	PASTE FILL	STANDARD	NONE	210	60	67	=5 mils
13	OFF-CENTER	OFF-CENTER	NONE	225	60	7	<5 mils
14	OFF-CENTER	OFF-CENTER	NONE	195	20	25	<5 mils
15	OFF-CENTER	OFF-CENTER	NONE	225	60	101	=5 mils
16	OFF-CENTER	OFF-CENTER	NONE	225	60	6	<5 mils
17	OFF-CENTER	OFF-CENTER	NONE	225	60	8	<5 mils